

ABSTRACT OF THE INVENTION

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2 An ultrasound imaging device having a cableless coupling for coupling a two-
3 dimensional array of ultrasound transducers to a signal generating and receiving unit such as a
4 motherboard. The coupling includes an acoustically attenuating and electrically conductive
5 structure, which can include posts that are electrically conductive or electrically insulative
6 having a conductor embedded or mounted on the outer surface. There can also be a high
7 density connector allowing coupling and de-coupling the two dimensional array to and from
8 the motherboard.